



SEQUENCE LISTING

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Epimmune Inc.

<120> Inducing Cellular Immune Responses to
Carcinoembryonic Antigen Using Peptide and Nucleic Acid
Compositions

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<140> US 09/458,302
<141> 1999-12-10

<150> US 08/027,146
<151> 1993-03-05

<150> US 08/073,205
<151> 1993-06-04

<150> US 08/159,184
<151> 1993-11-29

<150> US 08/205,713
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<150> US 09/189,702
<151> 1998-11-10

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Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr
1 5

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Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg
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<210> 1529

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Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys
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Thr Leu Phe Asn Val Thr Arg Asn Asp Ala
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Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg
1 5 10

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Thr Leu Phe Asn Val Thr Arg Asn Asp Thr Ala
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Thr Leu Thr Leu Phe Asn Val Thr Arg
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Thr Leu Thr Leu Leu Ser Val Thr Arg
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Thr Ser Pro Gly Leu Ser Ala Gly Ala
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 1 5 10

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Val Ala Phe Thr Cys Glu Pro Glu Ala

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<210> 1549

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Val Cys Gly Ile Gln Asn Ser Val Ser Ala

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Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr

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Val Thr Arg Asn Asp Ala Arg Ala Tyr

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Val Thr Arg Asn Asp Thr Ala Ser Tyr

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Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys

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Val Thr Thr Ile Thr Val Tyr Ala
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Trp Leu Ile Asp Gly Asn Ile Gln Gln His
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Tyr Ala Cys Phe Val Ser Asn Leu Ala
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Tyr Ala Glu Pro Pro Lys Pro Phe
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<400> 1804

Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu
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<210> 1805

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<400> 1805

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu
1 5 10

<210> 1806

<211> 9

<212> PRT

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<400> 1806

Thr Tyr Tyr Arg Pro Gly Val Asn Leu
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<210> 1807

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<400> 1807

Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
1 5 10

<210> 1808

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<400> 1808

Val Tyr Ala Glu Pro Pro Lys Pro Phe
1 5

<210> 1809

<211> 10

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<400> 1809
 Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile
 1 5 10

<210> 1810
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<400> 1810
 Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile
 1 5 10

<210> 1811
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<400> 1811
 Trp Trp Val Asn Gly Gln Ser Leu
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<210> 1812
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<400> 1812
 Trp Trp Val Asn Asn Gln Ser Leu
 1 5

<210> 1813
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<400> 1813
 Tyr Tyr Arg Pro Gly Val Asn Leu
 1 5

<210> 1814
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<400> 1814
 Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
 1 5 10

<210> 1815
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<400> 1815
 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
 1 5 10 15

<210> 1816
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<400> 1816
 Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr
 1 5 10 15

<210> 1817
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<400> 1817
 Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn
 1 5 10 15

<210> 1818
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<400> 1818

Gln Arg Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro
 1 5 10 15

<210> 1819

<211> 15

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<400> 1819

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro
 1 5 10 15

<210> 1820

<211> 15

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<400> 1820

Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu
 1 5 10 15

<210> 1821

<211> 15

<212> PRT

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<400> 1821

Leu Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile
 1 5 10 15

<210> 1822

<211> 15

<212> PRT

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<400> 1822

Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu
 1 5 10 15

<210> 1823

<211> 15

<212> PRT

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<400> 1823

Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu
1				5					10					15

<210> 1824

<211> 15

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<400> 1824

Glu	Val	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly
1				5				10					15

<210> 1825

<211> 15

<212> PRT

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<400> 1825

Val	Leu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly	Tyr
1				5				10						15

<210> 1826

<211> 15

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<400> 1826

Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile
1				5					10					15

<210> 1827

<211> 15

<212> PRT

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<400> 1827

Asn	Arg	Gln	Ile	Ile	Gly	Tyr	Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr
1				5					10					15

<210> 1828
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<400> 1828
 Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr
 1 5 10 15

<210> 1829
 <211> 15
 <212> PRT
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<400> 1829
 Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser
 1 5 10 15

<210> 1830
 <211> 15
 <212> PRT
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<220>
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<400> 1830
 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

<210> 1831
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 <212> PRT
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<220>
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<400> 1831
 Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
 1 5 10 15

<210> 1832
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 <212> PRT
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<220>
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<400> 1832

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
1 5 10 15

<210> 1833

<211> 15

<212> PRT

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<220>

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<400> 1833

Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
1 5 10 15

<210> 1834

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1834

Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe
1 5 10 15

<210> 1835

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1835

Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
1 5 10 15

<210> 1836

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1836

Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
1 5 10 15

<210> 1837

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1837

Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn
1				5					10					15

<210> 1838

<211> 15

<212> PRT

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<400> 1838

Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu
1				5					10					15

<210> 1839

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1839

Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr
1				5					10					15

<210> 1840

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1840

Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly
1				5					10					15

<210> 1841

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1841

Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val
1				5					10					15

<210> 1842
 <211> 15
 <212> PRT
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<220>
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<400> 1842
 Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
 1 5 10 15

<210> 1843
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1843
 Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1844
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1844
 Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 1 5 10 15

<210> 1845
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1845
 Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
 1 5 10 15

<210> 1846
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1846

Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu
1 \ 5 10 15

<210> 1847

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1847

Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
1 5 10 15

<210> 1848

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1848

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu
1 5 10 15

<210> 1849

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1849

Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Thr Ala
1 5 10 15

<210> 1850

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1850

Leu Phe Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu
1 5 10 15

<210> 1851

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1851

Gln	Asn	Pro	Val	Ser	Ala	Arg	Arg	Ser	Asp	Ser	Val	Ile	Leu	Asn
1				5					10					15

<210> 1852

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1852

Ser	Asp	Ser	Val	Ile	Leu	Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro
1				5					10					15

<210> 1853

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1853

Leu	Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro	Thr	Ile	Ser	Pro	Leu
1				5					10					15

<210> 1854

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1854

Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro	Thr	Ile	Ser	Pro	Leu	Asn
1				5					10					15

<210> 1855

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1855

Ala	Pro	Thr	Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu
1				5					10					15

<210> 1856

<211> 15
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<220>
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<400> 1856
 Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
 1 5 10 15

<210> 1857
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1857
 Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
 1 5 10 15

<210> 1858
 <211> 15
 <212> PRT
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<220>
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<400> 1858
 Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly
 1 5 10 15

<210> 1859
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1859
 Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser
 1 5 10 15

<210> 1860
 <211> 15
 <212> PRT
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<220>
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<400> 1860
 Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr

1 5 10 15

<210> 1861
 <211> 15
 <212> PRT
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<220>
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<400> 1861
 Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln
 1 5 10 15

<210> 1862
 <211> 15
 <212> PRT
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<220>
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<400> 1862
 Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His
 1 5 10 15

<210> 1863
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1863
 Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr
 1 5 10 15

<210> 1864
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1864
 Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys
 1 5 10 15

<210> 1865
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1865

Thr	Ile	Thr	Val	Tyr	Ala	Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser
1				5					10					15

<210> 1866

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1866

Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu	Asp	Glu
1				5					10					15

<210> 1867

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1867

Ser	Asn	Pro	Val	Glu	Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu
1				5					10					15

<210> 1868

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1868

Asn	Arg	Thr	Leu	Thr	Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly
1				5					10					15

<210> 1869

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1869

Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly	Pro	Tyr	Glu	Cys	Gly
1				5					10					15

<210> 1870

<211> 15

<212> PRT
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<400> 1870
 Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu
 1 5 10 15

<210> 1871
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1871
 Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
 1 5 10 15

<210> 1872
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1872
 Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
 1 5 10 15

<210> 1873
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1873
 Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu
 1 5 10 15

<210> 1874
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1874
 Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro
 1 5 10 15

<210> 1875
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1875
 Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
 1 5 10 15

<210> 1876
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1876
 Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val
 1 5 10 15

<210> 1877
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1877
 Ser Pro Ser Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
 1 5 10 15

<210> 1878
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1878
 Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu Ser Cys
 1 5 10 15

<210> 1879
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1879

Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn
 1 5 10 15

<210> 1880

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1880

Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
 1 5 10 15

<210> 1881

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1881

Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu
 1 5 10 15

<210> 1882

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1882

Thr Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly
 1 5 10 15

<210> 1883

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1883

Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
 1 5 10 15

<210> 1884

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1884

Ile	Ser	Asn	Ile	Thr	Glu	Lys	Asn	Ser	Gly	Leu	Tyr	Thr	Cys	Gln
1				5					10					15

<210> 1885

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1885

Asn	Ser	Gly	Leu	Tyr	Thr	Cys	Gln	Ala	Asn	Asn	Ser	Ala	Ser	Gly
1				5					10					15

<210> 1886

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1886

Arg	Thr	Thr	Val	Lys	Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys
1				5					10					15

<210> 1887

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1887

Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
1				5					10					15

<210> 1888

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1888

Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys
1				5					10					15

<210> 1889
 <211> 15
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<220>
 <223> Artificial Peptide

<400> 1889
 Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 1890
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1890
 Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Leu
 1 5 10 15

<210> 1891
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1891
 Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg
 1 5 10 15

<210> 1892
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1892
 Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly
 1 5 10 15

<210> 1893
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1893

Val	Cys	Gly	Ile	Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro
1				5					10				15	

<210> 1894

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1894

Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro	Val	Thr	Leu	Asp
1				5					10				15	

<210> 1895

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1895

Ser	Asp	Pro	Val	Thr	Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro
1				5					10				15	

<210> 1896

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1896

Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro
1				5					10				15	

<210> 1897

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1897

Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro	Asp
1				5					10				15	

<210> 1898

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1898

Thr	Pro	Ile	Ile	Ser	Pro	Pro	Asp	Ser	Ser	Tyr	Leu	Ser	Gly	Ala
1				5					10					15

<210> 1899

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1899

Ser	Ser	Tyr	Leu	Ser	Gly	Ala	Asn	Leu	Asn	Leu	Ser	Cys	His	Ser
1				5					10					15

<210> 1900

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1900

Asn	Leu	Asn	Leu	Ser	Cys	His	Ser	Ala	Ser	Asn	Pro	Ser	Pro	Gln
1				5						10				15

<210> 1901

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1901

Gln	Tyr	Ser	Trp	Arg	Ile	Asn	Gly	Ile	Pro	Gln	Gln	His	Thr	Gln
1				5					10					15

<210> 1902

<211> 15

<212> PRT

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<220>

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<400> 1902

Ile	Asn	Gly	Ile	Pro	Gln	Gln	His	Thr	Gln	Val	Leu	Phe	Ile	Ala
1				5					10					15

<210> 1903
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<400> 1903
 Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
 1 5 10 15

<210> 1904
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<400> 1904
 Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr
 1 5 10 15

<210> 1905
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<220>
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<400> 1905
 Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr
 1 5 10 15

<210> 1906
 <211> 15
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<220>
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<400> 1906
 Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg
 1 5 10 15

<210> 1907
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<220>
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<400> 1907

Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
 1 5 10 15

<210> 1908
 <211> 15
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<220>
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<400> 1908
 Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile
 1 5 10 15

<210> 1909
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<220>
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<400> 1909
 Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
 1 5 10 15

<210> 1910
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<220>
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<400> 1910
 Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
 1 5 10 15

<210> 1911
 <211> 15
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<220>
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<400> 1911
 Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu
 1 5 10 15

<210> 1912
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<220>

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<400> 1912

Ser	Ile	Thr	Val	Ser	Ala	Ser	Gly	Thr	Ser	Pro	Gly	Leu	Ser	Ala
1				5					10					15

<210> 1913

<211> 15

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<400> 1913

Ser	Pro	Gly	Leu	Ser	Ala	Gly	Ala	Thr	Val	Gly	Ile	Met	Ile	Gly
1				5					10					15

<210> 1914

<211> 15

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<223> Artificial Peptide

<400> 1914

Thr	Val	Gly	Ile	Met	Ile	Gly	Val	Leu	Val	Gly	Val	Ala	Leu	Ile
1				5					10					15

<210> 1915

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1915

Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu
1				5					10					15

<210> 1916

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1916

Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile
1				5					10					15

<210> 1917

<211> 15
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<220>
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<400> 1917
 Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly
 1 5 10 15

<210> 1918
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 <212> PRT
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<220>
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<400> 1918
 Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro
 1 5 10 15

<210> 1919
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 <212> PRT
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<220>
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<400> 1919
 Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly
 1 5 10 15

<210> 1920
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1920
 Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

<210> 1921
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 <212> PRT
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<220>
 <223> Artificial Peptide

<400> 1921
 Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly

1	5	10	15
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<210> 1922
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<220>
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<400> 1922
 Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val
 1 5 10 15

<210> 1923
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1923
 Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
 1 5 10 15

<210> 1924
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1924
 Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1925
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1925
 Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
 1 5 10 15

<210> 1926
 <211> 15
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<220>

<223> Artificial Peptide

<400> 1926

Thr	Ala	Ser	Tyr	Lys	Cys	Glu	Thr	Gln	Asn	Pro	Val	Ser	Ala	Arg
1				5					10					15

<210> 1927

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1927

Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro	Thr	Ile	Ser	Pro	Leu	Asn
1				5					10					15

<210> 1928

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1928

Thr	Ile	Thr	Val	Tyr	Ala	Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser
1				5					10					15

<210> 1929

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1929

Ser	Asn	Pro	Val	Glu	Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu
1				5					10					15

<210> 1930

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1930

Ala	Val	Ala	Leu	Thr	Cys	Glu	Pro	Glu	Ile	Gln	Asn	Thr	Thr	Tyr
1				5					10					15

<210> 1931

<211> 15

<212> PRT
 <213> Artificial Sequence

<220>
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<400> 1931
 Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
 1 5 10 15

<210> 1932
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1932
 Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
 1 5 10 15

<210> 1933
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1933
 Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
 1 5 10 15

<210> 1934
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1934
 Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1935
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1935
 Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr
 1 5 10 15

<210> 1936
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1936
 Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
 1 5 10 15

<210> 1937
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1937
 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
 1 5 10 15

<210> 1938
 <211> 15
 <212> PRT
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<220>
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<400> 1938
 Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu Pro
 1 5 10 15

<210> 1939
 <211> 15
 <212> PRT
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<220>
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<400> 1939
 Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 1 5 10 15

<210> 1940
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1940

Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala	His	Asn	Ser	Asp	Thr	Gly	Leu
1				5					10					15

<210> 1941

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1941

Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	Leu	Ser	Asn	Asp
1				5					10					15

<210> 1942

<211> 15

<212> PRT

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<400> 1942

Arg	Leu	Gln	Leu	Ser	Asn	Asp	Asn	Arg	Thr	Leu	Thr	Leu	Leu	Ser
1				5					10					15

<210> 1943

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1943

Gly	Val	Asn	Leu	Ser	Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro
1				5					10					15

<210> 1944

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1944

Gly	Ala	Asn	Leu	Asn	Leu	Ser	Cys	His	Ser	Ala	Ser	Asn	Pro	Ser
1				5					10					15

<210> 1945

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1945

Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met	Leu	Arg	His
1				5					10					15

<210> 1946

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1946

Val	Leu	Ile	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu	Gln	Arg
1				5					10					15

<210> 1947

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1947

Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys	His	Pro
1				5					10					15

<210> 1948

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1948

Leu	Ala	Leu	Ile	His	His	Asn	Thr	His	Leu	Cys	Phe	Val	His	Thr
1				5					10					15

<210> 1949

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1949

Trp	Asp	Gln	Leu	Phe	Arg	Asn	Pro	His	Gln	Ala	Leu	Leu	His	Thr
1				5					10					15

<210> 1950
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<400> 1950
 His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln
 1 5 10 15

<210> 1951
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1951
 Gly Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu
 1 5 10 15

<210> 1952
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1952
 Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu
 1 5 10 15

<210> 1953
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1953
 Gln Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser
 1 5 10 15

<210> 1954
 <211> 15
 <212> PRT
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<220>
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<400> 1954

Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His
1 5 10 15

<210> 1955

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1955

Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His
1 5 10 15

<210> 1956

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1956

Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu
1 5 10 15

<210> 1957

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1957

Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His
1 5 10 15

<210> 1958

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1958

Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His
1 5 10 15

<210> 1959

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1959

Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg
1 5 10 15

<210> 1960

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1960

Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
1 5 10 15

<210> 1961

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1961

Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu
1 5 10 15

<210> 1962

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1962

Ile Pro Trp Gln Arg Leu Leu Leu Thr
1 5

<210> 1963

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1963

Trp Gln Arg Leu Leu Leu Thr Ala Ser
1 5

<210> 1964
<211> 9
<212> PRT
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<220>
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<400> 1964
Leu Leu Leu Thr Ala Ser Leu Leu Thr
1 5

<210> 1965
<211> 9
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1965
Leu Leu Thr Ala Ser Leu Leu Thr Phe
1 5

<210> 1966
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1966
Leu Thr Ala Ser Leu Leu Thr Phe Trp
1 5

<210> 1967
<211> 9
<212> PRT
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<220>
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Leu Thr Phe Trp Asn Pro Pro Thr Thr
1 5

<210> 1968
<211> 9
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<220>
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<400> 1968

Phe Trp Asn Pro Pro Thr Thr Ala Lys
1 5

<210> 1969
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1969
Trp Asn Pro Pro Thr Thr Ala Lys Leu
1 5

<210> 1970
<211> 9
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1970
Leu Thr Ile Glu Ser Thr Pro Phe Asn
1 5

<210> 1971
<211> 9
<212> PRT
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<220>
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<400> 1971
Leu Leu Val His Asn Leu Pro Gln His
1 5

<210> 1972
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1972
Leu Val His Asn Leu Pro Gln His Leu
1 5

<210> 1973
<211> 9
<212> PRT
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<220>
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<400> 1973
Tyr Lys Gly Glu Arg Val Asp Gly Asn
1 5

<210> 1974
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1974
Ile Ile Gly Tyr Val Ile Gly Thr Gln
1 5

<210> 1975
<211> 9
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1975
Ile Gly Thr Gln Gln Ala Thr Pro Gly
1 5

<210> 1976
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1976
Tyr Ser Gly Arg Glu Ile Ile Tyr Pro
1 5

<210> 1977
<211> 9
<212> PRT
<213> Artificial Sequence

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<400> 1977
Ile Ile Tyr Pro Asn Ala Ser Leu Leu
1 5

<210> 1978

<211> 9
<212> PRT
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<220>
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<400> 1978
Ile Tyr Pro Asn Ala Ser Leu Leu Ile
1 5

<210> 1979
<211> 9
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1979
Tyr Pro Asn Ala Ser Leu Leu Ile Gln
1 5

<210> 1980
<211> 9
<212> PRT
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<220>
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<400> 1980
Leu Leu Ile Gln Asn Ile Ile Gln Asn
1 5

<210> 1981
<211> 9
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<220>
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<400> 1981
Leu Ile Gln Asn Ile Ile Gln Asn Asp
1 5

<210> 1982
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1982
Ile Ile Gln Asn Asp Thr Gly Phe Tyr

1 5

<210> 1983
<211> 9
<212> PRT
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<220>
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<400> 1983
Phe Tyr Thr Leu His Val Ile Lys Ser
1 5

<210> 1984
<211> 9
<212> PRT
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<220>
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<400> 1984
Tyr Thr Leu His Val Ile Lys Ser Asp
1 5

<210> 1985
<211> 9
<212> PRT
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<220>
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<400> 1985
Leu His Val Ile Lys Ser Asp Leu Val
1 5

<210> 1986
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1986
Val Ile Lys Ser Asp Leu Val Asn Glu
1 5

<210> 1987
<211> 9
<212> PRT
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<220>

<223> Artificial Peptide

<400> 1987

Ile Lys Ser Asp Leu Val Asn Glu Glu
1 5

<210> 1988

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1988

Leu Val Asn Glu Glu Ala Thr Gly Gln
1 5

<210> 1989

<211> 9

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1989

Val Asn Glu Glu Ala Thr Gly Gln Phe
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<210> 1990

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1990

Val Tyr Pro Glu Leu Pro Lys Pro Ser
1 5

<210> 1991

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1991

Leu Pro Lys Pro Ser Ile Ser Ser Asn
1 5

<210> 1992

<211> 9

<212> PRT
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<220>
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<400> 1992
Ile Ser Ser Asn Asn Ser Lys Pro Val
1 5

<210> 1993
<211> 9
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<220>
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<400> 1993
Val Glu Asp Lys Asp Ala Val Ala Phe
1 5

<210> 1994
<211> 9
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<213> Artificial Sequence

<220>
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<400> 1994
Trp Val Asn Asn Gln Ser Leu Pro Val
1 5

<210> 1995
<211> 9
<212> PRT
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<220>
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<400> 1995
Val Asn Asn Gln Ser Leu Pro Val Ser
1 5

<210> 1996
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1996
Leu Thr Leu Phe Asn Val Thr Arg Asn
1 5

<210> 1997
<211> 9
<212> PRT
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<220>
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<400> 1997
Val Thr Arg Asn Asp Thr Ala Ser Tyr
1 5

<210> 1998
<211> 9
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1998
Val Ser Ala Arg Arg Ser Asp Ser Val
1 5

<210> 1999
<211> 9
<212> PRT
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<220>
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<400> 1999
Val Ile Leu Asn Val Leu Tyr Gly Pro
1 5

<210> 2000
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 2000
Leu Tyr Gly Pro Asp Ala Pro Thr Ile
1 5

<210> 2001
<211> 9
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<220>
<223> Artificial Peptide

<400> 2001

Tyr Gly Pro Asp Ala Pro Thr Ile Ser
1 5

<210> 2002

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2002

Ile Ser Pro Leu Asn Thr Ser Tyr Arg
1 5

<210> 2003

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2003

Leu Ser Cys His Ala Ala Ser Asn Pro
1 5

<210> 2004

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2004

Trp Phe Val Asn Gly Thr Phe Gln Gln
1 5

<210> 2005

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2005

Leu Phe Ile Pro Asn Ile Thr Val Asn
1 5

<210> 2006

<211> 9

<212> PRT

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<400> 2006

Phe Ile Pro Asn Ile Thr Val Asn Asn
1 5

<210> 2007

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 2007

Ile Pro Asn Ile Thr Val Asn Asn Ser
1 5

<210> 2008

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2008

Ile Thr Val Asn Asn Ser Gly Ser Tyr
1 5

<210> 2009

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2009

Val Asn Asn Ser Gly Ser Tyr Thr Cys
1 5

<210> 2010

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2010

Leu Asn Arg Thr Thr Val Thr Thr Ile
1 5

<210> 2011
<211> 9
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1 5 10

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Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
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Tyr Arg His Asp Gly Gly Asn Val Leu

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Tyr Arg His Asp Gly Gly Asn Val Leu

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Ser Gly Pro Ser Asn Thr Tyr Pro Glu Ile

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Arg Gly Tyr Val Phe Gln Gly Leu

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Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile

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Lys Phe Asn Pro Met Lys Thr Tyr Ile
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Tyr Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg Thr Pro Pro Tyr
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Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu
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Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile
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Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu
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Tyr Val Cys Gly Ile Gln Asn Ser Val

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Tyr Leu Ser Gly Ala Asn Leu Asn Leu
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 Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro
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 Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 1 5 10 15

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Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
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Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
 1 5 10 15

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Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
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Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
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Tyr	Leu	Trp	Trp	Val	Asn	Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg
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Leu	Trp	Trp	Val	Asn	Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu
1				5					10					15

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Gln	Tyr	Ser	Trp	Phe	Val	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln
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<400> 2328

Asp	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Thr	Ile	Thr	Val	Tyr
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 Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu Asp Glu
 1 5 10 15

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 Asn Arg Thr Leu Thr Leu Leu Ser Val Thr Arg Asn Asp Val Gly
 1 5 10 15

<210> 2331
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 Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
 1 5 10 15

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<400> 2332
 Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
 1 5 10 15

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<400> 2333

Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys
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Thr	Gln	Val	Leu	Phe	Ile	Ala	Lys	Ile	Thr	Pro	Asn	Asn	Asn	Gly
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<400> 2336

Gln	Val	Leu	Phe	Ile	Ala	Lys	Ile	Thr	Pro	Asn	Asn	Asn	Gly	Thr
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<400> 2337

Tyr	Ala	Cys	Phe	Val	Ser	Asn	Leu	Ala	Thr	Gly	Arg	Asn	Asn	Ser
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 Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
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 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
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 Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
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<210> 2342
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 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
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<210> 2343
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 Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
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<400> 2344
 Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2345
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 Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
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<400> 2346
 Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
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<210> 2347
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<400> 2347

Arg	Thr	Thr	Val	Lys	Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys
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Asn	Ser	Ile	Val	Lys	Ser	Ile	Thr	Val	Ser	Ala	Ser	Gly	Thr	Ser
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Gln	Asn	Ile	Ile	Gln	Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val
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<220>

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Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly
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Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val
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<400> 2354

Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro
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<210> 2355

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2355

Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
1				5					10					15

<210> 2356

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2356

Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr
1				5					10					15

<210> 2357

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<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2357
 Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
 1 5 10 15

<210> 2358
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2358
 Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn
 1 5 10 15

<210> 2359
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2359
 Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 1 5 10 15

<210> 2360
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2360
 Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser Asp Thr Gly Leu
 1 5 10 15

<210> 2361
 <211> 15
 <212> PRT
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<220>
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<400> 2361
 Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser

1

5

10

15

<210> 2362

<211> 15

<212> PRT

<213> Artificial Sequence

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<220>

<223> Artificial Peptide

<400> 2362

Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu

1

5

10

15

<210> 2363

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2363

Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr

1

5

10

15

<210> 2364

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2364

Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp

1

5

10

15

<210> 2365

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2365

Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser

1

5

10

15

<210> 2366

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2366

Glu	Cys	Gly	Ile	Gln	Asn	Glu	Leu	Ser	Val	Asp	His	Ser	Asp	Pro
1				5				10					15	

<210> 2367

<211> 15

<212> PRT

<213> Artificial Sequence

BEST AVAILABLE COPY

<220>

<223> Artificial Peptide

<400> 2367

Gln	Asn	Glu	Leu	Ser	Val	Asp	His	Ser	Asp	Pro	Val	Ile	Leu	Asn
1				5				10					15	

<210> 2368

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2368

Asn	Val	Leu	Tyr	Gly	Pro	Asp	Asp	Pro	Thr	Ile	Ser	Pro	Ser	Tyr
1				5				10					15	

<210> 2369

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2369

Gly	Val	Asn	Leu	Ser	Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro
1				5				10					15	

<210> 2370

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2370

Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
1				5				10					15	

<210> 2371

<211> 15

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<212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2371
 Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr
 1 5 10 15

<210> 2372
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2372
 Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
 1 5 10 15

<210> 2373
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2373
 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
 1 5 10 15

<210> 2374
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2374
 Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser
 1 5 10 15

<210> 2375
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2375
 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
 1 5 10 15

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<210> 2376
 <211> 15
 <212> PRT
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<220>
 <223> Artificial Peptide

<400> 2376
 Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 1 5 10 15

<210> 2377
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2377
 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

<210> 2378
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2378
 Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

<210> 2379
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2379
 Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2380
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2380

Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 2381

<211> 15

<212> PRT

<213> Artificial Sequence

BEST AVAILABLE COPY

<220>

<223> Artificial Peptide

<400> 2381

Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
 1 5 10 15

<210> 2382

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2382

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
 1 5 10

<210> 2383

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2383

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
 1 5 10 15
 Asn Val Val Asn Ser
 20

<210> 2384

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2384

Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
 1 5 10 15

<210> 2385

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

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<221> MOD_RES
<222> 1, 13
<223> Xaa = D-alanine or L-alanine

<221> MOD_RES
<222> 3
<223> Xaa = cyclohexylalanine, Phe or Tyr

<400> 2385
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa
1 5 10